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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/796,232	KOBAYASHI, YUTAKA		
Office Action Summary	Examiner	Art Unit		
	Janelle N. Young	2618		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 31 Ja This action is FINAL . 2b) ☑ This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-29 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 09 March 2004 is/are:	wn from consideration. or election requirement. or.	o by the Examiner		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. Section is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate		

Art Unit: 2618

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 31, 2008 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter "channel data is included in the received data" which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Art Unit: 2618

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2, 6-11, 12-14, and 18-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ariyoshi et al. (US Patent 2002/0021682) and further in view of Okumura (US Pub 2003/0003942).

As for claim 1, Ariyoshi et al. teaches a transmission power control method that compares error rate of receive data and target error rate on a receiving side, controlling target SIR and causes a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR (Page 1, Para 0005; Page 2, Para 0015 & 0019; and Page 5, Para 0049 of Ariyoshi et al.), comprising the steps of:

determining whether an interval is an interval in which data is being transmitted channel data is included in the received data (Page 3, Para 0032 and Page 6, Para 0056 of Ariyoshi et al.);

Art Unit: 2618

comparing the error rate of receive data after decoding and the target error rate of the data and controlling the target SIR by a result of the comparing in an the interval in which channel data is being transmitted included in the receive data (Abstract; Page 1, Para 0011; and Page 2, Para 0015, 0017, & 0019 of Ariyoshi et al.);

measuring the error rate of a demodulated receive pilot in an the interval in which channel data is being transmitted included in the receive data ((Page 1, Para 0009-0010 and Page 3, Para 0029 & 0031 of Ariyoshi et al.); and

controlling the target SIR upon comparing the measured error rate of the pilot and target error rate of the pilot in an the interval in which channel data is being transmitted included in the receive data (Page 5, Para 0048 and Page 6, Para 0059 & 0061-0067 of Ariyoshi et al.).

What Ariyoshi et al. does not explicitly teach is upper and lower limits of the target error rate of the pilot and <u>channel data is included in the received data</u>.

However, Okumura teaches a step of providing upper and lower limits of the target error rate of the pilot and controlling the target SIR in such a manner that the measured error rate of the pilot will fall within a range defined by said upper and lower limits (Page 1, Para 0014; Page 2, Para 0018; Page 4, Para 0062-0064; Page 5, Para 0065 & 0070; Page 7, Para 0088 & 0092; and Page 8, Para 0115-0116 of Okumura).In addition, Okumura teaches a mobile station and the base station 200 transmit and receive data (including packets, control signals, and audio signals; which reads on

claimed <u>channel data is included in the received data</u> (Abstract and Page 2, Para 0043 of Okumura).

It would have been obvious to one of ordinary skill of the art at the time the invention was made to incorporate a prevention that does not allow the data quality from becoming unnecessarily high and/or low and to achieve reasonable transmit power control. the target signal quality is set to fall between the predetermined limits, as taught by Okumura, in the communication and power control method of Ariyoshi et al., because Ariyoshi et al. already teaches making adjustments to the transmission power to hold the SIR at a specific target (Page 1, Para 0003 of Ariyoshi et al.).

The motivation of this combination would be the effect of the controlling the transmission power of the mobile station, as taught by Ariyoshi et al. The determined a target value for power control would be based on the determined error rate. Then, the target signal quality is updated so that data quality received at the receiving station satisfies prescribed target data quality (Abstract; Page 1, Para 0010 & 0014-0015; Page 2, 0016-0021; and Page 9, Para 0118 of Okumura).

As for claim 2, Ariyoshi et al. teaches a transmission power control method for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR, wherein the error rate of a synchronous word contained in a pilot is adopted as the error rate of the pilot (Page 3, Para 0028-0030 & 0035 of Ariyoshi et al.).

Page 6

As for claim 6, Ariyoshi et al. teaches a transmission power control method for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR (Page 1, Para 0005; Page 2, Para 0015 & 0019; and Page 5, Para 0049 of Ariyoshi et al.).

As for claim 7, Ariyoshi et al. teaches a transmission power control method for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR, further comprising a step of storing target SIR in control before a changeover is made from the control in the interval in which data is being transmitted to the control in the interval in which data is not being transmitted (Page 1, Para 0002-0007 & 0011; Page 3, Para 0020; and Page 5, Para 0050 in respect to Page 4, Para 0045 and Page 5, Para 0047 of Ariyoshi et al.).

As for claim 8, Ariyoshi et al. teaches a transmission power control method for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR, further comprising a step of storing target SIR prevailing when the measured error rate of the pilot has attained the target error rate, after the changeover is made to the control in the interval in which data is not being transmitted (Page 1, Para 0011; Page 3, Para 0019-0020; and Page 5, Para 0049-0051 in respect to Page 5, Para 0047 of Ariyoshi et al.).

As for claim 9, Ariyoshi et al. teaches a transmission power control method for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR, further comprising a step of storing the difference between target SIR prevailing when the measured error rate of the pilot has attained the target error rate and the stored target SIR, after the changeover is made to the control in the interval in which data is not being transmitted (Page 1, Para 0011; Page 3, Para 0019-0020; and Page 5, Para 0049-0051 in respect to Page 5, Para 0048 of Ariyoshi et al.).

As for claim 10, Ariyoshi et al. teaches a transmission power control method for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR, further comprising a step of setting the stored SIR as target SIR when a changeover is made from the control in the interval in which data is not being transmitted to the control in the interval in which data is being transmitted (Page 2, Para 0016-0017; Page 3, Para 0020; Page 4, Para 0046; and Page 5, Para 0047-0050 in respect to Page 5, Para 0048of Ariyoshi et al.).

As for claim 12, Okumura teaches a control method that controls transmitter so as to make a measured reception quality approach a target quality, wherein if a data signal is not contained in a prescribed receive interval and a pilot signal is contained in said interval based upon format information of a received receive signal, the target quality is controlled based upon the pilot signal, and if a data signal is contained in the

prescribed receive interval, the target quality is controlled based upon the data signal (Page 1, Para 0004-0005; Page 4, Para 0058 & 0063; and Page 5, Para 0065-0067 of Okumura).

Regarding claim 13, see explanation as set forth regarding claim 1 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

Regarding claim 14, see explanation as set forth regarding claim 2 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

Regarding claim 18, see explanation as set forth regarding claim 6 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

Regarding claim 19, see explanation as set forth regarding claim 7 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and

causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

Regarding claim 20, see explanation as set forth regarding claim 8 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

Regarding claim 21, see explanation as set forth regarding claim 9 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

Regarding claim 22, see explanation as set forth regarding claim 10 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

Regarding claim 24, see explanation as set forth regarding claim 12 (method claim) because the claimed receiving apparatus for controlling a transmitter to make a measured reception quality approach a target quality would perform the method steps.

4. Claims 3-4 & 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ariyoshi et al. (US Patent 2002/0021682) and Okumura (US Pub 2003/0003942) as applied to claim 1 above, and further in view of Kim et al. (US Pub 2003/0119452).

As for claims 3-4, Ariyoshi et al. teaches a transmission power control method for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR (Page 1, Para 0005; Page 2, Para 0015 & 0019; and Page 5, Para 0049 of Ariyoshi et al.).

Ariyoshi et al. discloses a power control method in a communication system for performing communications by code-division multiple access between a mobile station and base station, wherein a multiple access interference signal contained in a reception signal from the mobile station is cancelled, a post-interference cancellation signal-to-interference power ratio of the reception signal currently received is estimated, a power control command is generated by comparing the estimated post-interference cancellation signal-to-interference power ratio and a target value for power control, and transmitting this power control command to the mobile station to control the transmission power of the mobile station.; which reads on claimed comparing the error rate of receive data after decoding and the target error rate of the data and controlling the target SIR by a result of the comparing in an interval in which data is being transmitted.

Ariyoshi et al. discloses a target value setting portion 310 uses the tentative SIR target value acquired from the outer loop SIR target value setting portion 330 and the

average estimated SIR value of the transmission time interval TTI in which the current pre-interference cancellation received signal is contained to update the target SIR value for power control when, for example, the difference there between is larger than a threshold value; which reads on claimed controlling the target SIR upon comparing the measured error rate of the pilot and target error rate of the pilot in the interval in which data is not being transmitted. **Note:** The time interval TTI are receiving signals and is not transmitting.

What Ariyoshi et al. does not explicitly teach is Transport Format Combination Indicator (TFCI).

However Kim et al. teaches a step for determining whether an interval is an interval in which data is being transmitted based upon results obtained by decoding demodulated TFCI information and/or based upon TFCI information that has been demodulated by a modem (Page 20, Para 0197; Page 22, Para 0209; and Page 27, Para 0248 of Kim et al.).

It would have been obvious to one of ordinary skill of the art at the time the invention was made to incorporate the control information such as uplink TPC (Transmission Power Control) command, TFCI (Transport Format Combination Indicator) symbol, and pilot symbol techniques, as taught by Kim et al., in the communication and power control method of Ariyoshi et al., because Ariyoshi et al. already teaches a channel estimation pilot signal, a TFCI (transport format combination indicator), FBI (feedback information) and a transmission power control command (TPC) (Page 3, Para 0035 of Ariyoshi et al.).

Art Unit: 2618

The motivation of this combination would be the effect of the frame structure of a dedicated physical data channel and a dedicated physical control channel in the uplink and the frame's slot, as taught by Ariyoshi et al. in Page 3, Para 0035. The downlink DPDCH converts control signals such as the TFCI provided from the upper layer in accordance with the frame's slot. This helps to perform a series of transmission processes such as channel coding and spreading, and provides its output (Page 15, Para 0167-0171; Page 20, Para 0198; Page 22, Para 0209; and Page 27, Para 0250 of Kim et al.).

Regarding claim 15, see explanation as set forth regarding claim 3 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

Regarding claim 16, see explanation as set forth regarding claim 4 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

5. Claims 5, 11, 17, & 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ariyoshi et al. (US Patent 2002/0021682) and Okumura (US Pub

2003/0003942) as applied to claim 1 above, and further in view of Jitsukawa et al. (US Pub 2003/0012267).

As for claim 5, Ariyoshi et al. teaches a transmission power control method for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR (Page 1, Para 0005; Page 2, Para 0015 & 0019; and Page 5, Para 0049 of Ariyoshi et al.).

What Ariyoshi et al. does not explicitly teach is upper and lower limits of the target error rate of the pilot.

However, Jitsukawa et al. teaches a step of setting the target error rate of the pilot is used in detection on the receiving side; which reads on claimed a manner that the transmitting and receiving sides will not become desynchronized, when the target SIR has been lowered upon comparing the measured error rate of the pilot and the target error rate of the pilot (Fig. 1, 7, & 9; Page 1, Para 0005 and Page 2, Para 0010-0011 in correspondence to Page 1, Para 0001-0003 & 0007 and Page 2, Para 0016-0017 of Jitsukawa et al.).

It would have been obvious to one of ordinary skill of the art at the time the invention was made to incorporate a pilot is used in synchronous detection on the receiving side, as taught by Jitsukawa et al., in the communication and power control method of Ariyoshi et al., because Ariyoshi et al. already teaches obtaining synchronization timing (Page 2, Para 0029 of Ariyoshi et al.).

The motivation of this combination would be the effect of the received signal that is first despread by the despreading code of the dedicated physical control channel to obtain a synchronization timing, as taught by Ariyoshi et al.

As for claim 11, Ariyoshi et al. teaches a transmission power control method for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR, wherein when the change is made from the control in the interval in which data is not being transmitted to the control in the interval in which data is being transmitted, a value obtained by adding the absolute value of the difference between the two stored target SIRs or the absolute value of the stored difference to the target SIR that prevailed prior to the changeover of control is set as the target SIR (Page 6, Para 0061-0067 in respect to Abstract; Page 2, Para 0010 and Page 3, Para 0019 of Jitsukawa et al.).

Regarding claim 17, see explanation as set forth regarding claim 5 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

Regarding claim 23, see explanation as set forth regarding claim 11 (method claim) because the claimed transmission power control apparatus for comparing error rate of receive data and target error rate on a receiving side, controlling target SIR and

causing a transmitting side to control transmission power in such a manner that measured SIR will agree with the target SIR would perform the method steps.

6. Claims 25-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ariyoshi et al. (US Patent 2002/0021682), Okumura (US Pub 2003/0003942) and further in view of Hayashi (US Patent 6697634).

As for claim 25, Ariyoshi et al. teaches a radio communication apparatus eperable configured to receive a data channel and a control channel (Page 1, Para 0005; Page 2, Para 0015 & 0019; and Page 5, Para 0049 of Ariyoshi et al.).

What Ariyoshi et al. does not explicitly teach is switching between transmission power controls.

However, Hayashi teaches a unit operable configured to switch transmission power control between a first transmission power control on a basis of quality measured for the data channel and a second transmission power control on a basis of quality measured for the control channel. (Fig. 1, 4, & 12; Abstract; Col. 2, lines 11-19; Col. 2, line 61-Col. 6, line 40 Claim 14 of Hayashi).

It would have been obvious to one of ordinary skill of the art at the time the invention was made to incorporate an apparatus and method for transmission/reception carrying out transmit power control, mounted on a communication apparatus in a mobile radio communication system, as taught by Hayashi, in the communication and power control method of Ariyoshi et al., because Ariyoshi et al. already teaches making adjustments to the transmission power control (Page 1, Para 0003 of Ariyoshi et al.).

Ariyoshi et al. also teaches a transmission power control command (TPC) (Page 3, Para 0035 of Ariyoshi et al.).

The motivation of this combination would be the effect of the controlling the transmission power of the mobile station, as taught by Ariyoshi et al. in Page 3, Para 0035. This combination would be able carry out closed-loop transmit power control using a transmit power value based on a TPC command after establishment of a communication channel, calculating a compensation value based on a difference between a reception-level-based transmit power value and a TPC-command-based transmit power value and carrying out open-loop transmit power control using a value obtained by adding the compensation value to the reception-level-based transmit power value after the calculation of the compensation value. (Abstract; Col 12, lines 20-29 of Hayashi).

As for claim 26, Ariyoshi et al. teaches a radio communication apparatus operable to receive a data channel and a control channel, wherein the first transmission power control and the second transmission power control is to control a target receiving quality compared with a measured reception quality (Abstract; Page 1, Para 0011; and Page 2, Para 0015, 0017, & 0019 of Ariyoshi et al.).

As for claim 27, Ariyoshi et al. teaches a radio communication apparatus operable to receive a data channel and a control channel, wherein the unit performs the switching based on a signal which indicates a structure of receiving a radio frame (Page 3, Para 0035 of Ariyoshi et al.).

Art Unit: 2618

As for claim 28, Ariyoshi et al. teaches a radio communication apparatus operable to receive a data channel and a control channel, wherein the second transmission power control is performed based on a known signal transmitted via the control channel (Page 1, Para 0005; Page 2, Para 0015 & 0019; and Page 5, Para 0049 of Ariyoshi et al.).

As for claim 29, Ariyoshi et al. teaches a radio communication apparatus operable to receive a data channel and a control channel, wherein the first transmission power control is performed based on error condition of the data channel and the second transmission power control is performed based on error condition of the control channel (Page 1, Para 0005; Page 2, Para 0015 & 0019; and Page 5, Para 0049 of Ariyoshi et al.).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janelle N. Young whose telephone number is (571) 272-2836. The examiner can normally be reached on Monday through Friday: 10:00 am through 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Janelle N. Young/ Examiner, Art Unit 2618 March 3, 2008 /Nay A. Maung/ Supervisory Patent Examiner, Art Unit 2618